



# TD-V26 Speaker and Antenna Replacement

A step-by-step repair guide showing how to fix a TD-V26 radio's speaker and antenna by soldering a replacement one to the wires connecting the circuit.

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## INTRODUCTION

Radios are an everyday household item that are quite easy to break down after a few years or can wear down after many uses. Broken radios often just sit and collect dust and take up space. Fortunately, you can fix those radios and make them a functional device in your workspace. You'll need some common hand tools and some replacement parts.

Once finished you can enjoy the sweet sounds of your favorite radio station.

Here some other guides to complete this project:

[How To Solder and Desolder Connections](#)

[How to Test Speakers and Wires](#)



### TOOLS:

- [Soldering Iron](#) (1)
- [Heat Gun](#) (1)
- [E6000 Adhesive Glue](#) (1)
- [Flush Wire Cutters](#) (1)
- [Wire Stripper](#) (1)
- [Phillips #0 Screwdriver](#) (1)
- [nylon pry tool](#) (1)



### PARTS:

- [4 ohm 3W Speaker](#) (1)


## Step 1 — TD-V26 Speaker and Antenna



- Observe what the problem is. Determine if the radio requires a **Speaker** change, an **Antenna** change or **Both**.
  - ① When the radio is on and all you hear is static and have cycled through some stations it is a good idea to assume the **Antenna** is broken
  - ① When the radio is on and you do not hear anything at all from the speaker with the volume up, then the **Speaker** is blown and needs replacing.

## Step 2



 After the diagnosis you can proceed to unscrew the **Antenna** located on the side of the plastic plate.

- Using a #1 Phillips screwdriver, remove the 1 mm screw on the side of the radio.

### Step 3



- Remove the plastic holder for the **Antenna** to release its holding.
- ① You will need to pull it out of its hole in order to do this. This can be done by hand, but if it is hard to remove use a pinching tool to remove it.

## Step 4



- Using a heat gun, loosen the glue holding the face of the radio.

⚠ Be careful not to overheat the radio.

- ⓘ Hold the heat gun about 3 inches from the radio face while moving away from it to prevent overheating.

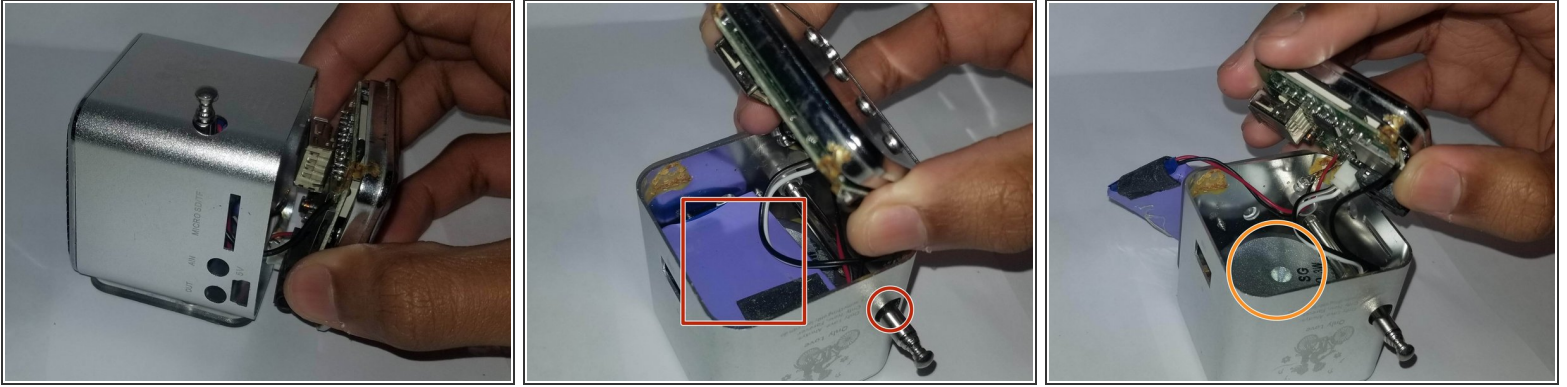


## Step 5



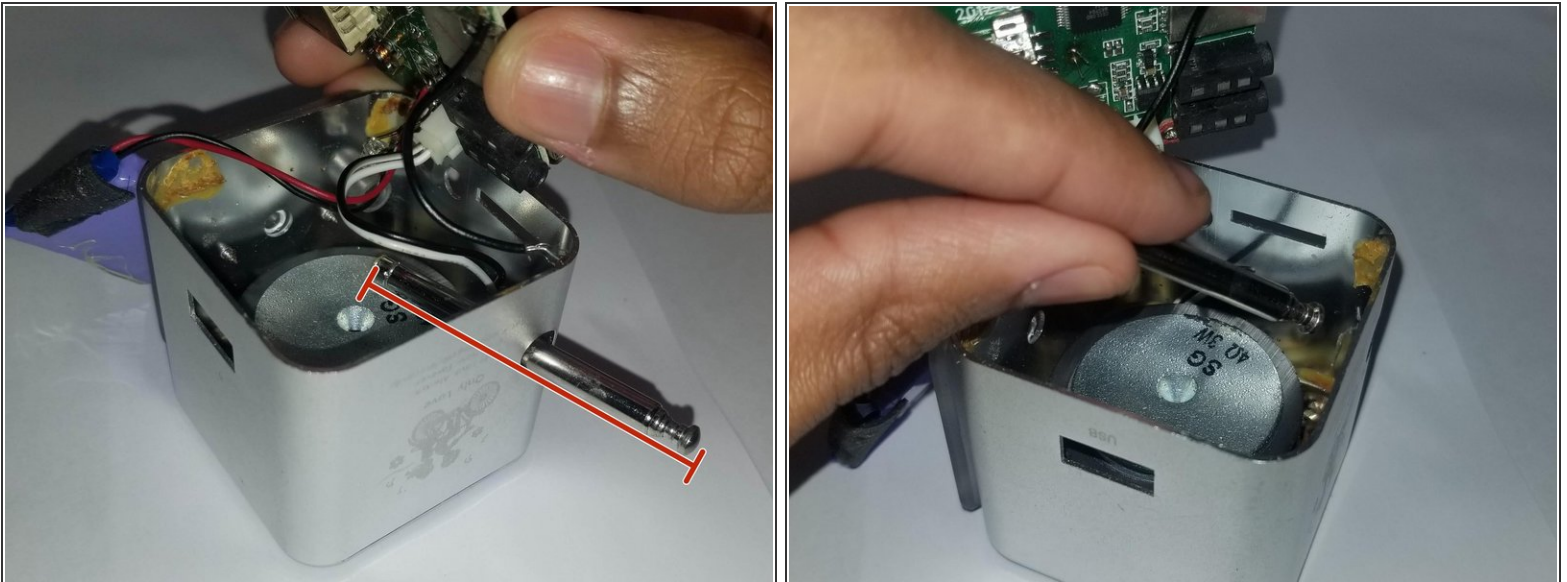
- Use a plastic opening tool to remove the face of the radio.
- ⓘ Be sure to do this while the face is warm so the glue is still loose.
- ⓘ An easy way to remove the face is starting at a flat area and moving to the corners of the face while turning the tool to lift the face up.

## Step 6



- Remove the radio's **Antenna** and **Battery**.
  - Place the face of the radio to the side for access to the **Speaker**.
  - Gently pull back on the face of the radio.
- ⚠ The wires are short so be careful not to snap/tear them!

## Step 7



- Place the face of the radio to the side with the battery and thread the **Antenna** through the inside compartment to remove it.

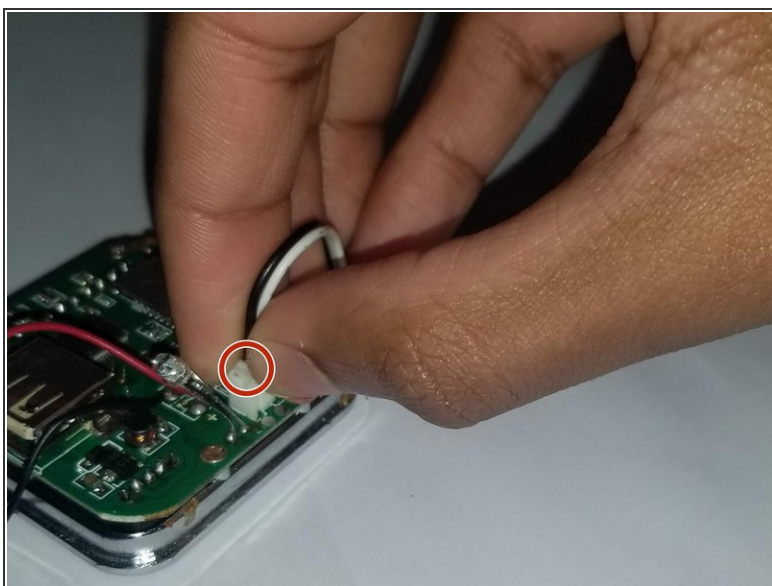


## Step 8



- Pry out the **Speaker** from its holding position in the frame of the radio.
- ⓘ If the speaker is hard to remove use some heat to loosen the glue holding it.

## Step 9



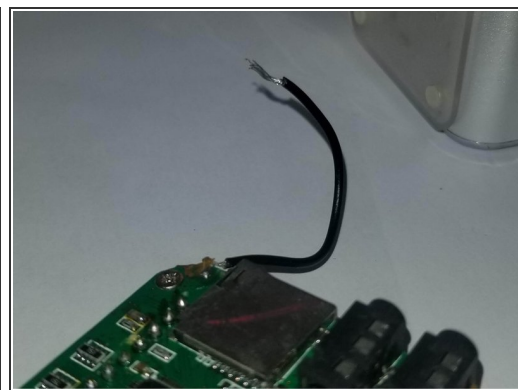
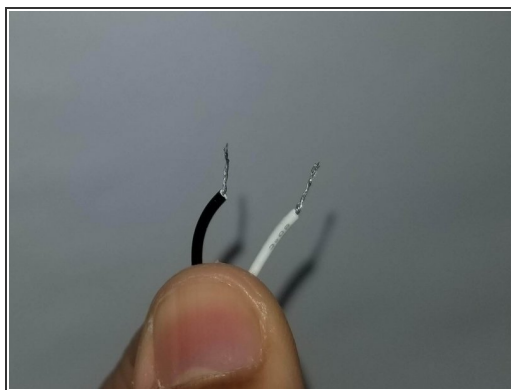
- Unplug the **Speaker Wire** from the circuit by pinching the small clip and wiggling it out.
- ⚠ Do not pull the wire to remove the plug. This could break the wire.

## Step 10



- Cut the wires of the **Speaker** and the **Antenna** as close to the old parts as possible.
- ⓘ Cutting the wires close to the broken part ensures more working space and room for error

## Step 11



- Strip the ends of the wires where you cut so that some wire is exposed to solder to the new parts.

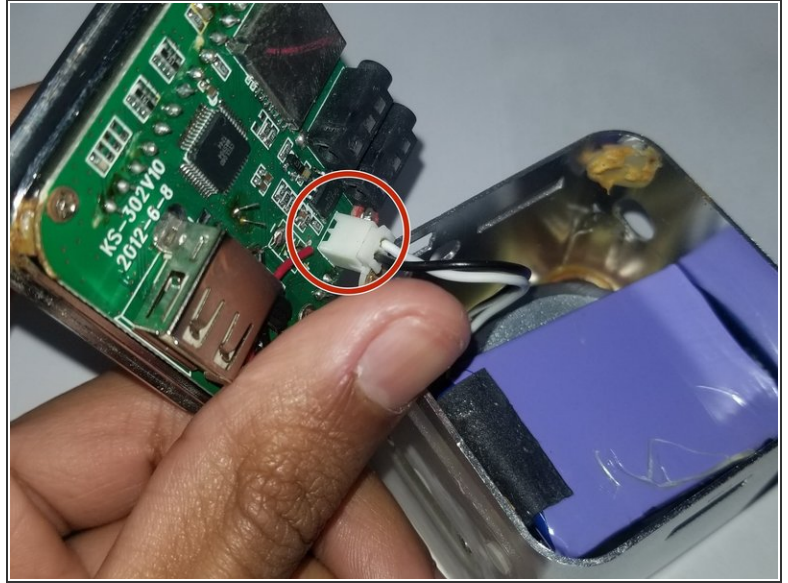
## Step 12



- Solder the positive and negative terminals of the **Speaker** with its respective wires.
  - ⓘ Both positive and negative poles should be indicated on the speaker. If not, check out the link to find the polarity of your speaker.
- Solder the new **Antenna** on.
- ⓘ If you need any help with soldering or how to check on the speakers, check out the two links provided below:
  - ⓘ [How To Solder and Desolder Connections](#)
  - ⓘ [How to Test Speakers and Wires](#)



## Step 13



- Place the **Speaker** back in the frame.
  - ⓘ Fasten it down to make sure it holds. You can use glue around the edge to achieve this. Be sure it won't fall out when moved.
- Place the **Battery** on top of the Speaker and plug in the **Speaker Wire** to the circuit of the radio.

## Step 14



- Take the **Antenna** and thread it through the hole at the top before placing it in the plastic holder at the bottom.
- Replace the antenna screw to affix the antenna back onto the plastic base plate.

## Step 15



- Check that the **Antenna** can extend through the hole and place the plastic holder back in place.
- Place the plastic ring back on to the **Antenna opening**.

## Step 16



- Glue around the main panel to secure it in place.
- Apply some downward force until the glue starts to dry.

To reassemble your device, follow these instructions in reverse order.